USER MANUAL

NAME: ***FULL HD CAR VIDEO CAMERA SECURITY CAR RECORDER***

MODEL: ***KIVOS KM200***

PLEASE READ THE INSTRUCTIONS BEFORE USING THE UNIT. SAVE IT FOR USE IN THE FUTURE.

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The full HD car camera is high-tech product integrating photo-taking, video-recorder and monitor into one.

Introduction 3
Safety Warning & Attention 3
1. Attention 3
2. Attention for operation of this product 3
3. Attentions for operation of charger 3
4. Operation and maintenance 4
Product Overview - Model: KM200 4
1. Characteristics and application 4
2. Performance parameters: 5
Product picture 6
Key introduction 7
Installation of SD memory card 7
Functions and Applications 7
1. On/Off system power 7
2. Menu description 8
   a) *Video mode* 8
   b) *Image shooting* 8
   c) *Playback* 9
   d) *Media tools* 9
   e) *General settings* 9
Battery and Charge 10
Configuration 10
Statement 10

Introduction

Thank you for choosing this intelligent monitoring security car recorder. Please read this Manual carefully to fully understand its usage, perfect functions and simple operation.
This product features photo-taking, video-recording and Night-Vision functions to satisfy your comprehensive car security requirements.
The Company reserves the right to modify this Manual from time to time without prior notice.
Before using this product, please read these Attentions carefully to ensure safe and proper operation of this product.

Safety Warning & Attention

1. Attention

- Do not place this product on an uneven or unstable table-board to prevent failure or damage caused by falling.
- Only the battery and charger designated by the Company can be used on this product. Application of other products may lead to leakage, overheating, blowout and fire of the battery.
- Please use the enclosed charger for fearing that other charges may result failure and danger.
- Do not violently strike, shake or toss the wireless video door phone to prevent failure and fire caused to the wireless video door phone.
- Do not put battery, charger or wireless video door phone in the microwave over or high-pressure device; otherwise, damage and fire of electrical circuit and other accidents may be caused.
- Do not use this product in a place with flammable and explosive gas; otherwise, amount of dust; otherwise, product failure may be caused.
- Do not place this product in a place with high temperature, high humidity or large amount of dust; otherwise, product failure may be caused.
- Do not remove and replace battery at will and only for the professional maintenance personnel to unload shell and disassemble internal components.

Attention: if the battery is not changed into the same style and level one, it may explode. Please contact the professional service staff of original manufacturer for replacement.

2. Attention for operation of this product

- Do not apply force on LCD screen or knock other objects with it, otherwise, breakage and damage of LCD panel and seepage of crystalline liquid will be caused. If the crystalline liquid enters your eyes, there will be danger of ablepsia. Wash your eyes (be sure not rub your eyes) and go to see the doctor immediately.
- Do not dismantle or remodel this product, otherwise, damage, creepage and electrical fault may be caused to this product.
- Do not try to repair the device. If it is out of order or affected with damp, please replace it immediately.
- Do not press the keys with a pin, stump of pen/pencil and other keen-edged objects; otherwise, damage or mis-operation will be caused.
- Do not project the lens at strong light source, such as the sun and so on; otherwise, damage of the image sensor may be caused.
- Do not press the terminal of lens with much force; otherwise, personal injury or damage of the device may be caused.

3. Attentions for operation of charger

- You may charge the device with a car charger or through a USB data line connected to the computer.
- It is forbidden to shortcircuit the charger, otherwise, electrical shock, smoke and damage of the charger will be caused.
- Do not use car charger under damp environment and never touch the car charger when your limbs are wet.
- Please make sure that the car charger is used in a well-ventilated area. Do not make the paper or other articles covering car charger, this will affect its cooling. It is not allowed to be used when the car charger is inside bags.
- Do not use the charger at the time when the power cord is damaged, otherwise, fire and electrical shock will be caused.
- Clear away the dust accumulated on power outlet ASAP.
- Do not place a vessel used to retain water beside the charger to prevent overheating, creepage and failure of charger caused by spilling water.
- If the charger is in contact with water or other liquids, disconnect the power supply immediately to prevent overheating, fire, electrical shock and failure of the charger.

- Do not dismantle or remodel the charger, otherwise, personal injury, electric shock, fire and damage of charger may be caused.
- Do not touch the charger, electrical line and power outlet with wet hand(s), otherwise, electric shock may be caused.
- Do not place heavy objects on the electrical line or refit the electrical line, otherwise, electric shock and fire will be caused.
- Before cleaning and maintenance, first pull the plug off the power outlet.

4. Operation and maintenance

- Please keep this product dry, as rainwater, moisture, humidity and liquids or moisture content may contain mineral matters that erode the circuit.
- Do not keep this product in any place with high temperature. As high temperature may shorten the lifespan of electronic device, damage the battery and cause deformation or melting of certain plastic parts and components.
- Do not keep this product in any place with low temperature. As when being moved from a place with low temperature to a place with normal temperature, it may generate humidity inside, which may cause damage of circuit board.
- Do not attempt to dismantle this product. As improper handling by nonprofessional personnel may cause damage of the device.
- Do not toss, knock or shake this product, as tough operation mode may damage the motherboard inside the device.
- If this product is made wet by mistake, shut it down and take it out of the host machine holder, remove the battery, and restart the product after confirming it complete dry in 24 hours.
- Do not have the metal parts (specially configured interfaces of charger and data line excluded) in contact with charger interface to avoid short circuit.
- Use clean and dry soft cloth to clean the lens and light sensor.

Warning: improper operation will void warranty!

Product Overview - Model: KM200

Full HD Car Video Camera
Security Car Recorder

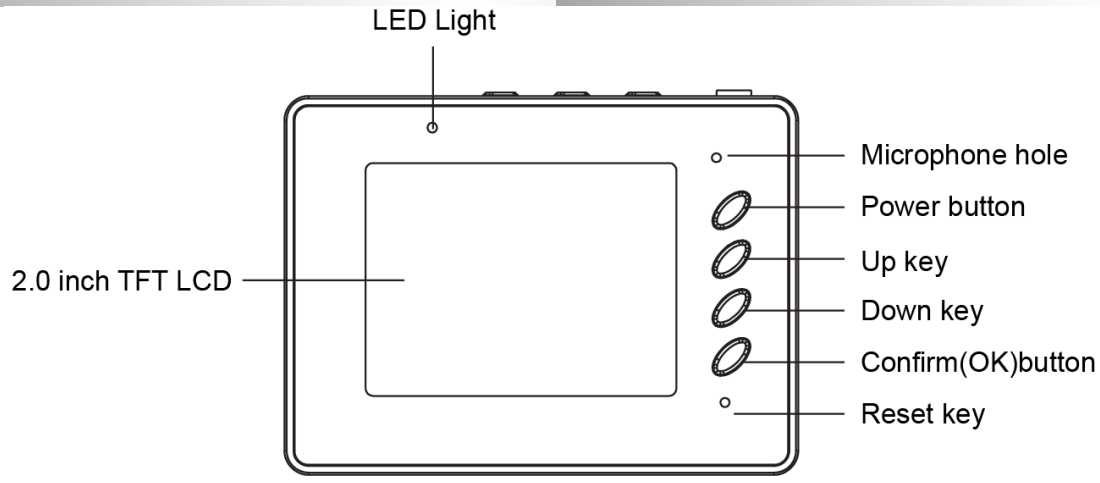
1. Characteristics and application

- Aluminium alloy, ultra - slim size facilitating carrying-on , simple to operate
- Full HD 1080P - Full high-definition 1080P picture recording
- TFT LCD。2.0 inch advanced TFT LCD display screen
- H.264 MOV
- High resolution filtering wide angle 5 mega pixels lens, shooting angle is up to 140 degree
- High power, high angle, low illumination, Day/Night Selectable modes
- Support HDMI/AVOUT full high-definition double use image output
- 4X digital zoom lens
- The latest delay shutdown function
- Support NTSC/PAL
- Auto power on when starting car,auto power off when car is off, simultaneously charging and recording
- Support Anti-Shake Mode
- Cycle recording mode, auto delete when recording new file
- Providing manual button to lock stored video file,SOS file protection, no worry about important files being covered.
- The latest seamless video technology, don't miss any seconds
- When recording can turn off the sound, to prevent unnecessary voice being saved
- Support high capacity TF memory car, up to 32G
- G-Sensor: When the car crashed in a moment can produce impact, video files will be locked immediately.
- Use the car-mounted bracket
- Car-mounted bracket accompanied can adhere to the windscreen.

2. Performance parameters:

Serial no.	Specifications	Technical parameters
1	Image sensor	5 mega pixel CMOS Sensor
2	LCD screen	2.0 inch TFT LCD HD display screen， 4:3Ideal proportion
3	Lens	140degree A+level High resolution,multilayer film ,filtering wide-angle lens
4	Photo resolution	The highest support 5 million pixels, static pictures pixels can reach 14 million
5	Photo format	JPEG format
6	Image resolution	4352x3264（14M）4000x3000（12M）3264x2448（8M)2560x1920（5M）2048x1536（3M)1920x1080（2M）1280x960（1.2M）640x480（VGA）
7	Video format	H.264 MOV
8	Recording mode	Full HD：2048x1080(30f) HD:2048x720（30f） 2048x720 (60f) VGA：640x480(30f)
9	Digital zoom	4X Digital zoom
10	Built-in loudspeaker	High-fidelity loudspeaker
11	Built-in microphone	High-definition receiving microphone
12	Single video time	Off、1min、3min、5min、10min
13	Flameout video time	0min/5min/1min/5min/30min/60min
14	Exposure	EV-2---EV+2
15	White balance	Automatic/sunlight/cloudy sky/Tungsten lamp/fluorescent light 1~3
16	Video output	HDMI / AV OUT
17	Video signal	PAL / NTSC
18	Current frequency	50Hz / 60Hz
19	Power port	5V 1.0A
20	Battery	Built-in Li-polymer Battery
21	Language	English / Spanish / Portuguese / Russian / Simplified Chinese / Traditional Chinese / German / Italian / Latvian / Polish / Romanian / Slovene / Ukrainian
22	USB	USB 2.0
23	External memory card	support up to 32 GB TF card， Meet the long time video demand
24	Three key	SOS/day and night/sound can be closed
25	Dimmension	67mmX50mmX32mm
26	Weight	About 52g
27	Protection sensitivity	Off/Level 0/Level 1/Level 2/Level 3/Level 4

Product picture



Key introduction

Name	Picture	Function Description
Power Button		Press the power button to turn on/off the device
Up key		Change the up direction in menu， Zoom close in picture taking mode.
Down key		Change the down direction in menu， Zoom pull far in picture taking mode.
OK key	**OK**	Start/stop video/menu of confirmation
Mute key		Short press for close or open of sound recording,long press for blank screen protection.
Menu key		Short press for entering various menus,long press for opening enhances night mode
Mode switch		Cycle recording mode-pictures taking mode-play mode Pressing the key for video file protection,repeat press for removing setting,the file is the special one(common video files are named MOV_xxxx):the special file is named SOS_xxxx.

Automatically starting recording at charging state ,please press the OK button If end or suspend video.

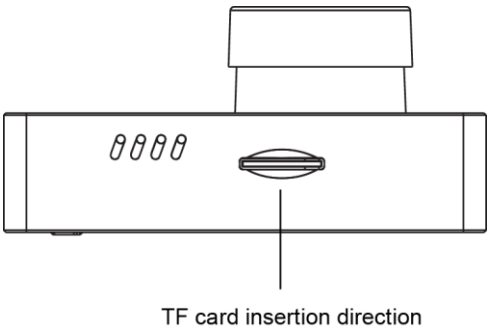
Installation of SD memory card

Insert SD card

- TF card insertion direction
- Propel SD card straightly to card slot according to given direction until a click sound

Remove SD card

- Gently press the top of the memory card, it can be removed after being popuped.



Functions and Applications

1. On/Off system power

Long press the power button for 2 seconds, LCD screen will display the boot screen.
Short press the power button for 2 seconds, closing device.

2. Menu description

Under the "video mode" , "image shooting " , "playback" , "media tools" and "general settings" five modes, this device provide different menu settings, including "video mode", "image shooting ","playback" ,"media tools" and "general settings"for users to set system

a) Video mode

In video mode,press entering video mode menu picture,as explained below

Video mode	Description	Submenu
Movie mode	Set video capture modes	FHD:Full high definition 30fps HD:high definition 30fps HD:high definition 60fps VGA:VGA30fps
Movie quality	Choose video shooting quality	Ultra high quality/high quality
Movie clip time	Movie clip time	Off/1min/3min/5min/10min
Movie off time	Movie off time	0min / 5sec / 1min / 5min / 30min / 60min
Motion event REC	Flameout video time	0min/5sec/1min/5min/30min/60min
Sound recording	Sound recording	On/off
MIC sensitivity	Adjust the volume of the microphone	Standard，low
Scene	Choose different scene modes to rekord	Automatic/sports/portrait/scenery/snowscape /beach/fireworks
Exposure	Adjust brightness	-2~+2
White balance	Adjust color balance	Automatic/sunlight/cloudy sky/Tungsten lamp/fluorescent light1~3
ISO Sensitivity	Choose photosensitivity	Automatic/ISO100/ISO200/ISO400

b) Image shooting

In the photo mode, press , then enter the picture of image shooting menu,as explained below。

Image shooting	Description	Submenu
Still Image Size	Choose image size	14M/12M/8M/5M/3M/2M/1.2M/VGA
Still Quality	Choose picture quality	Ultra high quality/high quality
Scene	Choose different scene modes to rekord	Automatic/sports/portrait/scenery/snowscape /beach/fireworks
Exposure adjustment	Adjust brightness	-2~+2
White balance	Adjust color balance	Automatic/sunlight/cloudy sky/Tungsten lamp/fluorescent light1~3
Sensitivity	Choose photosensitivity	Automatic/ISO100/ISO200/ISO400
Colour	Adjust color saturation	Nature / bright-coloured / greyish white
Effect	The method of selection of image effect	standard/brownish black/black and white/relief sculpture/negative film/sketch/oil painting/crayon

c) Playback

In playback mode, press , then enter the picture of playback menu,as explained below。

Playback	*Description*	*Submenu*
Volume	*Choose video playback volume*	*1~10*
Delete	*Delete video or picture*	*Delete single file/delete all*
Protect	*Protect video or image lest be deleted*	*Protect single file/Remove single file/Protect all /Remove all*

d) Media tools

In any mode, first press , then ,can switch to the picture of media tools menu,as explained below.

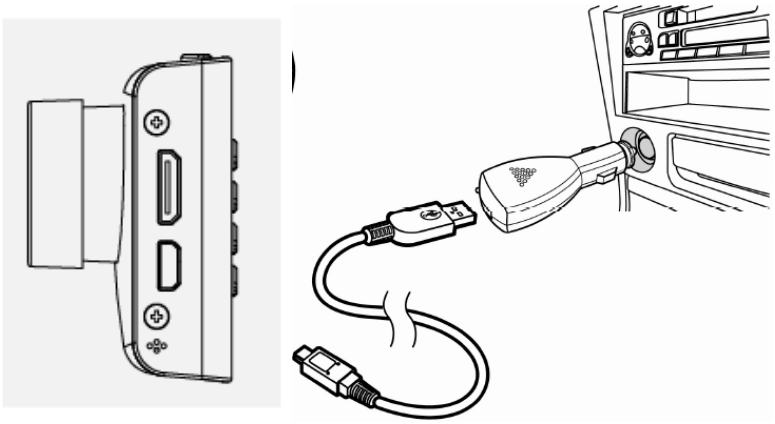
Media to ols	*Description*	*Submenu*
Format SD card	*All data will be deleted*	*Yes/no*
SD card information	*Residual video time, Residual picture numbers*	

e) General settings

In any mode, first press , then , can switch to the picture of general setting menu ,as explained below.

General settings	*Description*	*Submenu*
Keypad tone	*Open/close Keypad tone*	*On/off*
Auto power-off	*Choose automatic shutdown mode*	*Never/1min/5min*
Clock set	*Clock set*	*2012 /01 /01 00:00*
Date format	*Select date format*	*No/year, month,date/month,date,year/date ,month,year*
Language	*Choose a display language*	*English/Spanish/Portuguese/Russian/Simplified Chinese/Traditional Chinese/German/Italian/Latvian /Polish/Romanian/Slovene/Ukrainian*
TV output	*Choose TV output*	*NTSC/PAL*
HDMI output	*Choose HDMI output signal types*	*1080i/720p*
Light frequency	*Light frequency*	*50Hz/60Hz*
USB function	*USB function*	*MSDC/PCAM*
Image Flip	*Image flip*	*On/off*
Screen shutting down automatically	*Screen shutting down automatically*	*Off, 1min, 3min*
Protect sensitivity	*Protect sensitivity*	*Off/Level 0~4*
System reset	*All set will be deleted*	*Yes/No*
Firmware version	*Firmware version*	*Version、branch、test*

Battery and Charge



- Be sure the activity of the battery, please fully charged the new battery.
- Charge-and-work supported. When the battery is charged fully, it auto stops charging.
- Battery type: high-quality lithium battery, please use the …….. model battery if it needs replacement
- Using the electric power source in the car to charge the battery:
  - Insert the mini USB plug of the car-mounted charger into the USB interface of the device.
  - Plug the car-mounted charger in the electric power source of the car.
- Charging and battery attentions, please reference the chapter “Warms and attentions” in this manual
- **Notice: Under the low power, display, photo-taking functions can’t work normally.**

Configuration

Manual	1piece
Camera	1piece
Car-mounted charger	1 piece
Car holder	1piece
USB data Line	1piece
AV Line	1piece

Statement

Expendable parts are not within the scope of warranty.
We are not responsible for any damage and loss of programs,information or mobile storage medias.Please contact the local service suppliers authorized by KIVOS so that you can know more about the geographical limit, demand of buying certification, appointment of replying time and other specific repairing service demands

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